

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. USFMC.R.66C2C1C2	APPLICATION NO. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		10/805,608	
		APPLICANT Zha, et al.	
		FILING DATE Herewith	GROUP Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	10/437,202	05/12/03	Muller			
	2	10/674,694	09/30/03	Zha, et al.			
	3	10/676,458	09/30/03	Cox, et al.			
	4	10/738,628	12/16/03	Muller, et al.			
	5	10/759,560	01/15/04	Zha, et al.			
	6	10/774,041	02/06/04	Zha, et al.			
DH	7	2001-0027951	10/11/01	Gungerich et al.			
PH	8	2001-0052494	12/20/01	Cote et al.			
PH	9	2002-0148767	10/17/02	Johnson et al.			
PH	10	2002-0153299	10/24/02	Mahendran et al.			
PH	11	2002-0195390	12/26/02	Zha et al.			
DH	12	2003-0075504	04/24/03	Zha et al.			
PH	13	2003-0089659	05/15/03	Zha et al.			
DH	14	2003-0136746	07/24/03	Behman et al.			
PH	15	2003-0141248	07/31/03	Mahendran et al.			
PH	16	2003-0146153	08/07/03	Cote et al.			
PH	17	2003-0164332	09/04/03	Mahendran et al.			
PH	18	2003-0178365	9/25/03	Zha et al.			
DH	19	2003-0205519	11/06/03	Zha et al.			
PH	20	2003-0226797	12/11/03	Phelps			
PH	21	2003-0234221	12/11/03	Johnson et al.			
PH	22	2004-0000520	1/1/04	Gallagher et al.			
PH	23	2004-0007525	01/15/04	Rabie et al.			
PH	24	3,228,876	01/11/66	Mahon			
PH	25	3,693,406	09/72	Tobin, III			
DH	26	3,708,071	01/02/73	Richard P. Crowley			

EXAMINER	<i>Pat. Tech.</i>	DATE CONSIDERED	9/7/04
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
PLH	27	3,968,192	06/07/76	Hoffman et al.			
PLH	28	3,992,301	11/76	Shippey et al.			
PLH	29	4,188,817	02/80	Steigelmann			
PLH	30	4,192,750	03/11/80	Elfes et al.			
PLH	31	4,193,780	03/80	Cotton et al.			
PLH	32	4,218,324	08/19/80	Hartmann et al.			
PLH	33	4,248,648	02/81	Kopp			
PLH	34	4,384,474	05/83	Kowalski			
PLH	35	4,385,150	05/24/83	Miyake et al.			
PLH	36	4,451,369	05/29/84	Sekino et al.			
PLH	37	4,511,471	04/85	Müller			
PLH	38	4,540,490	09/10/85	Shibata et al.			
PLH	39	4,547,289	10/85	Okano et al.			
PLH	40	4,609,465	09/02/86	Miller			
PLH	41	4,614,109	09/86	Hoffman			
PLH	42	4,632,745	12/30/86	Giuffrida et al.			
PLH	43	4,636,296	01/13/87	Kunz			
PLH	44	4,642,182	02/87	Drori			
PLH	45	4,647,377	03/03/87	Miura			
PLH	46	4,650,596	03/17/87	Schlueter, et al.			
PLH	47	4,656,865	04/87	Callan			
PLH	48	4,660,411	04/87	Reid			
PLH	49	4,670,145	06/02/87	Edwards			
PLH	50	4,673,507	6/16/87	Brown			
PLH	51	4,687,561	08/18/87	Kunz			
PLH	52	4,688,511	08/25/87	Gerlach et al.			
PLH	53	4,718,270	01/88	Storr			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
DL	54	4,744,240	05/88	Reichelt			
DL	55	4,756,875	07/12/88	Tajima et al.			
DL	56	4,767,539	8/88	Ford			
DL	57	4,779,448	10/88	Gogins			
DL	58	4,784,771	11/88	Wathen et al.			
DL	59	4,793,932	12/88	Ford et al.			
DL	60	4,797,211	01/89	Ehrfeld et al.			
DL	61	4,810,384	03/07/89	Fabre			
DL	62	4,812,235	03/14/89	Seleman et al.			
DL	63	4,816,160	03/89	Ford et al.			
DL	64	4,846,970	07/89	Bertelsen et al.			
DL	65	4,876,006	10/24/89	Ohkubo et al.			
DL	66	4,876,012	10/24/89	Kopp et al.			
DL	67	4,921,610	05/01/90	Ford et al.			
DL	68	4,931,186	06/05/90	Ford et al.			
DL	69	4,935,143	06/90	Kopp et al.			
DL	70	4,999,038	03/91	Lundberg			
DL	71	5,005,430	04/91	Kibler et al.			
DL	72	5,024,762	06/18/91	Ford et al.			
DL	73	5,066,375	11/19/91	Parsi et al.			
DL	74	5,066,401	11/19/91	Muller et al.			
DL	75	5,066,402	11/91	Anselme et al.			
DL	76	5,069,065	12/91	Sprunt et al.			
DL	77	5,076,925	12/31/91	Roesink et al.			
DL	78	5,079,272	01/07/92	Allegrezza, et al.			
DL	79	5,094,750	03/10/92	Kopp et al.			

EXAMINER	Daryl J. Loh	DATE CONSIDERED	9/7/04
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
DL	80	5,104,535	04/14/92	Cote et al.			
JK	81	5,104,546	04/92	Filson et al.			
JK	82	5,137,631	08/11/92	Eckman, et al.			
PL	83	5,138,870	08/92	Lyssy			
PL	84	5,151,191	09/29/92	Sunaoka et al.			
PL	85	5,151,193	09/29/02	Grobe et al.			
PL	86	5,158,721	10/27/92	Allegrezza, et al.			
PL	87	5,182,019	01/26/93	Cote et al.			
PL	88	5,192,456	3/93	Ishida et al.			
PL	89	5,194,149	03/16/93	Selbie et al.			
PL	90	5,198,116	03/93	Comstock et al.			
PL	91	5,209,852	05/11/93	Sunaoka, et al.			
PL	92	5,211,823	05/18/93	Giuffrida et al.			
PL	93	5,221,478	06/22/93	Dhingra et al.			
PL	94	5,227,063	07/13/93	Langerak, et al.			
PL	95	5,248,424	09/08/93	Cote et al.			
PL	96	5,297,420	03/94	Gilliland et al.			
PL	97	5,320,760	06/14/94	Freund et al.			
PL	98	5,353,630	10/94	Soda et al.			
PL	99	5,361,625	11/94	Ylvisaker			
PL	100	5,364,527	11/15/94	Zimmerman et al.			
PL	101	5,389,260	02/95	Hemp et al.			
PL	102	5,401,401	03/95	Hickok et al.			
PL	103	5,403,479	04/04/95	Smith et al.			
PL	104	5,405,528	04/11/95	Selbie et al.			
PL	105	5,417,101	05/23/95	Weich			
PL	106	5,419,816	05/95	Sampson et al.			

EXAMINER <i>David L. Smith</i>	DATE CONSIDERED 9/7/04
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
HL	107	5,470,469	11/28/95	Eckman			
HL	108	5,477,731	12/26/95	Mouton			
HL	109	5,480,553	01/02/96	Yamamori et al.			
HL	110	5,531,848	07/02/96	Brinda et al.			
HL	111	5,531,900	07/02/96	Raghaven et al.			
HL	112	5,543,002	08/06/96	Brinda et al.			
HL	113	5,554,283	09/10/96	Brinda et al.			
HL	114	5,607,593	03/04/97	Cote et al.			
HL	115	5,639,373	06/17/97	Mahendran et al.			
HL	116	5,643,455	07/01/97	Kopp et al.			
HL	117	5,783,083	07/21/98	Henshaw et al.			
HL	118	5,910,250	06/08/99	Mahendran et al.			
HL	119	5,914,039	06/22/99	Mahendran et al.			
HL	120	5,918,264	06/29/99	Drummond et al.			
HL	121	5,942,113	08/24/99	Morimura			
HL	122	5,944,997	08/31/99	Pedersen et al.			
HL	123	6,024,872	02/15/00	Mahendran et al.			
HL	124	6,039,872	03/21/00	Wu et al.			
HL	125	6,042,677	03/28/00	Mahendran et al.			
HL	126	6,048,454	04/00	Jenkins			
HL	127	6,077,435	6/20/00	Beck et al.			
HL	128	6,083,393	07/07/00	Wu et al.			
HL	129	6,146,747	11/14/00	Wang et al.			
HL	130	6,156,200	12/5/00	Zha et al.			
HL	131	6,159,373	12/00	Beck et al.			
HL	132	6,193,890	02/27/01	Pederson et al.			
HL	133	6,202,475	03/20/01	Selbie et al.			

EXAMINER	Daniel John	DATE CONSIDERED	9/7/04
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>PL</i>	134	6,245,239	06/12/01	Cote et al.			
<i>PL</i>	135	6,254,773	07/03/01	Biltoft			
<i>PL</i>	136	6,294,039	09/25/02	Mahendran et al.			
<i>PL</i>	137	6,303,035	10/16/01	Cote et al.			
<i>PL</i>	138	6,354,444	03/12/02	Mahendran et al.			
<i>PL</i>	139	6,440,303	08/02	Spriegel			
<i>PL</i>	140	6,524,481	2/25/03	Zha et al.			
<i>PL</i>	141	6,550,747	04/22/03	Rabie et al.			
<i>PL</i>	142	6,555,005	04/03	Zha et al.			
<i>PL</i>	143	6,620,319	09/16/03	Behmann et al.			
<i>PL</i>	144	6,627,082	09/30/03	Del Vecchio et al.			
<i>PL</i>	145	6,641,733	11/04/03	Zha et al.			
<i>PL</i>	146	6,645,374	11/11/03	Cote et al.			
<i>PL</i>	147	D462,699	09/10/02	Johnson et al.			
<i>PL</i>	148	D478,913	08/26/03	Johnson, et al.			
<i>PL</i>	149	H1,045	05/92	Wilson			
<i>PL</i>	150	RE37,549	02/19/02	Mahendran et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>PL</i>	151	DE 4 117 422	11/12/92	Germany (English language abstract)				X
<i>PL</i>	152	EP 920 904 A2	<del>12/12/00</del>	EPO 6-1999 EPO				
<i>PL</i>	153	EP 0 463 627 B1	05/10/95	EPO				
<i>PL</i>	154	EP 0 763 758 A1	10/02/96	EPO				
<i>PL</i>	155	EP 1 052 012 A1	11/15/00	EPO				
<i>PL</i>	156	FR 2 674 448 A1	02/10/92	France (English language abstract)				X

EXAMINER <i>PL</i>	DATE CONSIDERED <i>9/7/04</i>
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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
DL	157	GB 2 253 572 A	09/16/92	United Kingdom				
DL	158	JP 01-307409	12/89	Japan (abstract only)				X
DL	159	JP 02-164423	06/25/90	Japan (abstract only)				X
DL	160	JP 02-284035	11/21/90	Japan (abstract only)				X
DL	161	JP 03-018373	01/25/91	Japan (abstract only)				X
DL	162	JP 03-028797	02/06/91	Japan (abstract only)				X
DL	163	JP 04-310223	11/02/92	Japan (abstract only)				X
DL	164	JP 05-023557	02/02/93	Japan (abstract only)				X
DL	165	JP 05-157654	06/93	Japan (abstract only)				X
DL	166	JP 06-071120	03/15/94	Japan (abstract only)				X
DL	167	JP 06-114240	04/26/94	Japan (abstract only)				X
DL	168	JP 07-000770	01/06/95	Japan (abstract only)				X
DL	169	JP 07-275665	10/24/95	Japan (abstract only)				X
DL	170	JP 08-010585	01/16/96	Japan (abstract only)				X
DL	171	JP 09-141063	06/06/97	Japan (abstract only)				X
DL	172	JP 10-156149	06/16/98	Japan (abstract only)				X
	173	JP 31-010446	05/10/91	Japan (abstract only)				X
DL	174	JP 58-088007	05/26/83	Japan (abstract only)				X
DL	175	JP 61-097006	05/15/86	Japan (abstract only)				X
DL	176	JP 61-107905	05/26/86	Japan (abstract only)				X
DL	177	JP 61-192309	08/26/86	Japan (translation only)			X	
DL	178	JP 61-257203	11/14/86	Japan (abstract only)				X
DL	179	JP 61-263605	11/21/86	Japan (abstract only)				X
DL	180	JP 62-004408	01/10/87	Japan (abstract only)				X
DL	181	JP 62-114609	05/26/87	Japan (abstract only)				X
DL	182	JP 62-140607	06/24/87	Japan (abstract only)				X

EXAMINER Dai Anki	DATE CONSIDERED 9/7/04
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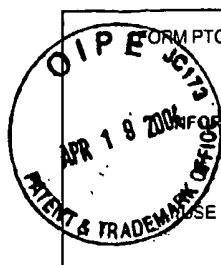
FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
JH	183	JP 62-179540	08/06/87	Japan (abstract only)				X
JH	184	JP 63-097634	04/28/88	Japan (abstract only)				X
JH	185	JP 63-180254	02/01/90	Japan (abstract only)				X
JH	186	JP 63-143905	06/16/88	Japan (abstract only)				
JH	187	JP 06-343837	12/20/94	Japan (abstract only)				
JH	188	JP 07-185268	07/25/95	Japan (abstract only)				
JH	189	WO 90/00434	01/25/90	PCT				
JH	190	WO 93/02779	02/18/93	PCT				
JH	191	WO 96/41676	12/27/96	PCT				
JH	192	WO 96/07470	03/14/96	PCT				
JH	193	WO 98/22204	05/28/98	PCT				
JH	194	WO 01/36075	05/25/01	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
JH	195	Derwent Abstract Accession No. 2001-142268/15, Class A88, J01 JP, A1, 2000342932 (Mitsubishi Rayon Co. Ltd.), December 12, 2000.
JH	196	Almulla et al., Desalination 153 (2002) 237-243.
JH	197	Rosenberger et al., Desalination 151 (2002) 195-200.

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	APPLICANT Zha, et al.	
	FILING DATE March 19, 2004	GROUP 1723

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
<i>DS</i>	1 Cote et al., Wat. Sci. Tech. 38(4-5) (1998) 437-442.

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041604

EXAMINER	<i>DS</i>	DATE CONSIDERED	<i>9/8/04</i>
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